

19980807.qrp v01_n176.qrs.980807

Date: Fri, 7 Aug 1998 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1176

QRP-L Digest 1176

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by "Russ Carpenter" <russ@natworld.com>
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by nilsbull@juno.com (Nils R Young)
- 3) [17010] Associated Heavy Equipment
by Sachsarch@aol.com
- 4) [17011] Re: QRP to me.
by Paula Bailey <pmbail01@ox.slug.louisville.edu>
- 5) [17012] CB to 10
by "John R. Glazier" <glazier.john@mcleod.net>
- 6) [17013] RE: Portable QRP--listen for me this weekend on 20m
by "David Ek" <ekdave@earthlink.net>
- 7) [17014] Thanks again!!
by beaks@westco.net
- 8) [17015] Need info on Sentry swr meter
by Pierre Constantineau <pierre@cmpe.ubc.ca>
- 9) [17016] SOLD:SST-40 (assembled)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 10) [17017] Re: Quotation Verbosity Monitor Report
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 11) [17018] Suggestions for DC receiver enhancement?
by "Dale Botkin" <dbotkin@probe.net>
- 12) [17019] Trouble with Capacitors
by Clay N4AOX <wyn@worldnet.att.net>
- 13) [17020] Re: propagation
by Richard Brittingham <rbritt@visi.net>
- 14) [17021] QRP/ICQ
by art marshall <w1fji@vistech.net>
- 15) [17022] QRP Forums at Huntsville, Aug. 15
by "Randy Moore" <wr.moore@worldnet.att.net>
- 16) [17023] A Sweepstakes Winner!
by Tim Pettibone <tpettibo@NMSU.Edu>
- 17) [17024] Solar 8-6 & Geomagnetic Storm
by Paul Harden <pharden@aoc.nrao.edu>
- 18) [17025] Re: A Sweepstakes Winner!
by we6w@juno.com (Ed Loranger)
- 19) [17026] Re: Propagation on 40 meters

- by Paul Harden <pharden@aoc.nrao.edu>
- 20) [17027] Re: Trouble with Capacitors
by gsurrency@juno.com (Gary L Surrency)
- 21) [17028] sst question... 8V to NE612's and LM386.
by Bernie Doehner <bad@uhf.wireless.net>
- 22) [17029] Re: Windows98
by "Wayne Barnhart" <wb7whi@triax.com>
- 23) [17030] Re: sst question... 8V to NE612's and LM386.
by Paul Harden <pharden@aoc.nrao.edu>
- 24) [17031] Re: sst question... 8V to NE612's and LM386.
by Bernie Doehner <bad@uhf.wireless.net>
- 25) [17032] Re: Windows98
by Bill Todd <bill@willapabay.org>
- 26) [17033] Heath GR-91
by Niels Jensen Kristjansson <nkristja@cadvision.com>
- 27) [17034] Layout and schematic for FREE !
by Peter De Schrijver <dh2fby@hrz.uni-kassel.de>
- 28) [17035] Re: London
by Dick Pascoe <Dick@kanga.demon.co.uk>
- 29) [17036] A Tale from Atlantida
by Rogerio Gonzaga <gonzaga@med.up.pt>
- 30) [17037] PROPAGATION CHARTS
by ARDUJENSKI@aol.com
- 31) [17038] Iowa QRP at Summerfest '98
by John Burnley <JBurnley@ifmc.org>
- 32) [17039] Re: Trouble with Capacitors
by Zack Lau <zlau@arrl.org>
- 33) [17040] QRP Items for Sale
by Dave Sjolín <sjolin@swbell.net>
- 34) [17041] Re: PROPAGATION CHARTS
by jeffrey davis <jeff@jehosopha.com>
- 35) [17042] Re: QRP Items for Sale
by dannyayers@juno.com (Danny K Ayers)
- 36) [17043] Qrp Items for Sale: Fixer-uppers
by Dave Sjolín <sjolin@swbell.net>
- 37) [17044] Re: PROPAGATION CHARTS
by ARDUJENSKI@aol.com
- 38) [17045] QRP items for Sale
by Dave Sjolín <sjolin@swbell.net>
- 39) [17046] Re: Quotation Verbosity Monitor Report
by Zack Lau <zlau@arrl.org>
- 40) [17047] re: CB to 10 (update)
by Conrad <radman@best.com>
- 41) [17048] Itsy-bitsy batteries
by Paul Helbert <phelbert@rica.net>
- 42) [17049] NiMH batteries for SST?
by Bernie Doehner <bad@uhf.wireless.net>
- 43) [17050] 10m and early lunch

by w4pj@w4bkx.ampr.org

44) [17051] Re: Quotation Verbosity Monitor Report
by Jim Lowman <jmlowman@ix.netcom.com>

45) [17052] sched Sat. 8/8 01:00 utc
by Scott Howell <whowell@hq.nasa.gov>

46) [17053] Solar 8-6 & Geomagnetic Storm
by Pat Byers <pbyers@rttinc.com>

47) [17054] Re: Quotation Verbosity Monitor Report
by wd3p@juno.com (Larry Cahoon)

48) [17055] Re: Solar 8-6 & Geomagnetic Storm
by Paul Harden <pharden@aoc.nrao.edu>

49) [17056] -Zack W1VT FN31/FN33.
by kh6b@juno.com (Dean W Manley)

50) [17057] Re: Quotation Verbosity Monitor Report
by KC5TJA <kc5tja@topaz.axisinternet.com>

51) [17058] Early lunch / 10m / and grid square LOC
by w4pj@w4bkx.ampr.org

52) [17059] Re: Quotation Verbosity Monitor Report
by "Harvey D. D. Hetland" <n6mm@earthlink.net>

53) [17060] Grid Square.
by "Vincent Ferme" <vferme@sprint.ca>

54) [17061] A curious question on the OHR Classic
by Danh Le <dql@slip.net>

55) [17062] RE: A curious question on the OHR Classic
by "James C. Owen, III" <owen@piper.eeel.nist.gov>

56) [17063] Re: Quotation Verbosity Monitor Report
by gsurrency@juno.com (Gary L Surrency)

57) [17064] SW30+ : Increasing the output, hmmmmm.
by gsurrency@juno.com (Gary L Surrency)

58) [17065] LM386-x voltage ratings
by gsurrency@juno.com (Gary L Surrency)

59) [17066] Elmer 101 -- Survey
by John Bohnert <johnb@elmhurst.edu>

60) [17067] ARRL/FCC FYI
by "Hulbert, Nick" <nick.hulbert@lmco.com>

61) [17068] NJQRP Demo at SJRA Hamfest
by jeverhar@cse.l-3com.com

62) [17069] Re: A curious question on the OHR Classic
by gsurrency@juno.com (Gary L Surrency)

63) [17070] Austin QRP Meeting Saturday (tomorrow)
by adams@chuck.dallas.sgi.com (Chuck Adams)

64) [17071] T092 Transistor pack info
by adams@chuck.dallas.sgi.com (Chuck Adams)

65) [17072] Grid Square
by "Ken & Linda Burrough" <ne0c@1st.net>

66) [17073] SST RIT?
by "Steve Galchutt" <n0tu@webaccess.net>

67) [17074] FS: LDG qrp Tuner

by "Robert Andrew Bell" <rbell@uniserve.com>
68) [17075] Windows 98 - Thanks...
by Gary Evans <gevans@lightspeed.net>
69) [17076] Re: A curious question on the OHR Classic
by Danh Le <dql@slip.net>
70) [17077] 11-2-10 progress report
by Steven Weber <kd1jv@moose.ncia.net>
71) [17078] Re: A curious question on the OHR Classic
by gsurrency@juno.com (Gary L Surrency)
72) [17079] info
by "DRL" <davel@nznet.gen.nz>
73) [17080] info
by "DRL" <davel@nznet.gen.nz>
74) [17081] Toroid-less final amps?
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
75) [17082] WSN-40 QRP net tomorrow.
by Ed Loranger <we6w@qsl.net>

Date: Thu, 06 Aug 1998 16:01:11 -0800
From: "Russ Carpenter" <russ@natworld.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [17008] Results of the AUGUST SPARTAN SPRINT
Message-ID: <199808062258.PAA03512@guppy.pond.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The August Spartan Sprint was another great one. 20 meters was productive for almost all parts of the country. Here in Oregon, even though 40 meters was basically a dog, it did produce a nice surprise when I contacted N2CQ. That just isn't supposed to happen on 40 meters during daylight hours in the middle of the summer. Another of the QRP miracles.

By way of reminder, stations that weigh more than Godzilla are stipulated to weigh 30 pounds. Each Q received one point. Thanks so much to all who participated. Lookin' forward to September!

The Soapbox has been posted separately on The ARS Sojourner,
<http://www.natworld.com/ars>.

THE SKINNY DIVISION (results sorted in order of points per pound)

Call	Name	40 M	20M	Total	Weight	Points/ Pound
AA7QU	Russ	7	26	33	2.7	12.22

K7TQ	Randy	0	24	24	2.4	10.00
K7ZEN	Scott	0	8	8	.8	10.00
WD3P	Larry	0	9	9	1.1	8.18
N7CEE	Bruce	0	15	15	2.2	6.82
K0Y0	Mike	0	8	8	1.2	6.67
WF4I	Derek	3	10	13	3.1	4.19
WV3J	Paul	3	0	3	1.2	2.50
KD3FG	Jon	1	9	10	5	2.00
WA1QVM	Joel	2	8	10	5	2.00
N0UR	JIM	0	24	24	15	1.60
AC6XK	Lorraine	5	0	5	3.4	1.47
N2CQ	Ken	10	28	38	30	1.27
W7SNV	Al	0	7	7	5.6	1.25
AA8PJ	Jeff	0	5	5	4	1.25
N0IBT	Dave	2	6	8	6.5	1.23
Ki0II	Ron	4	4	8	7.1	1.13
N6GA	Cam	2	6	8	8	1.00
W5TB	Doc	0	20	20	20	1.00
AD6EZ	Denny	1	0	1	1.5	0.67
NB0Z	James	0	7	7	12.6	0.56
WB5GWB	Jeff	0	14	14	30	0.47
VE5RC	Bruce	0	9	9	30	0.30
VE3ELA	Ken	0	9	9	30	0.30
KQ0I	Mark	0	7	7	25	0.28
AB0G0	Dave	0	8	8	30	0.27
AL7FS	Jim	0	7	7	30	0.23
N4UY	Jake	0	6	6	30	0.20
NA1XX	Mike	0	2	2	30	0.07

THE TUBBY DIVISION (results sorted in order of points)

Call	Name	40 M	20M	Total
N2CQ	Ken	10	28	38
AA7QU	Russ	7	26	33
K7TQ	Randy	0	24	24
N0UR	JIM	0	24	24
W5TB	Doc	0	20	20
N7CEE	Bruce	0	15	15
WB5GWB	Jeff	0	14	14
WF4I	Derek	3	10	13
KD3FG	Jon	1	9	10
WA1QVM	Joel	2	8	10
WD3P	Larry	0	9	9
VE5RC	Bruce	0	9	9
VE3ELA	Ken	0	9	9
Ki0II	Ron	4	4	8
N0IBT	Dave	2	6	8

K0Y0	Mike	0	8	8
K7ZEN	Scott	0	8	8
AB0G0	Dave	0	8	8
N6GA	Cam	2	6	8
W7SNV	Al	0	7	7
NB0Z	James	0	7	7
KQ0I	Mark	0	7	7
AL7FS	Jim	0	7	7
N4UY	Jake	0	6	6
AA8PJ	Jeff	0	5	5
AC6XK	Lorraine	5	0	5
WV3J	Paul	3	0	3
NA1XX	Mike	0	2	2
AD6EZ	Denny	1	0	1

72s to all of you.

Russ Carpenter, AA7QU
Contest Manager

Date: Thu, 6 Aug 1998 18:03:39 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [17009] Did I really do this? Or: Where'd these cards come from?
Message-ID: <19980806.180354.11678.0.nilsbull@juno.com>

Gang,

If there was ever a need for me to go out to the outhouse & get the log book, it's now.

I just got an envelope from the 8th District folks in Columbus, Ohio, with some QSLs for QSOs that I had back around 1990-1997. I must have been pretty active on the DX chasing bit then. Some of 'em you'd think I'd remember.

Like the card from CT4NH, whom I must have talked with on 15 m back in 1996. Or SV1QN/8, who says we talked on 30m back in 1995. Or how about the QSL from I2YSB who addressed the card to WB8IJN/QRP for a QSO on 30m, also back in '95.

I mean, you'd think that I'd remember these QSOs, seeing as how I haven't been that active since I joined this dag-nab group of chatterers. I spend all my time reading mail, fer cryin' out loud. I barely have time to make

modifications to radios that barely work after I've touched 'em with my magic slobbering iron.

So where'd I find time to do this QSO with 9U5T in Burundi during the Centenaire de Bujumbura en 1997. Says here Gerard and I talked on 40m, if you can believe that. I mean, it wasn't high power stuff, 'cause the ol' battered Warrior has been out of commission since the mice ate the insulation off the 110VAC main lines inside it. And that must be back, maybe, six years ago.

But the one I really don't get is the 40m QSO with LM2SKI during the VM ski championships in Trondheim, from whence come my distant nordic forebears. Was this when I was really nuts, trying to run the ARK4 out of a wire hung out the window of the upstairs bedroom? I remember having a couple nominal DX QSOs on that rig some time back. The LM2SKI card says 1997. That was last year. Why can't I remember something as fundamentally important as a DX QSO with Norway on 40m? I can remember QSOs with Sweden & the former Soviet Ukraine on 40m. Why not this LM2 one?

I better check my log. This is disturbing. It's as if I had no more faith than my ten-year-old son, who doesn't believe me when I tell him the story of Herbert Norstrom, the old cow poke who went astray of the law and subsequently died in the arms of his faithful girlfriend, Velveeta, after whom Herbert's mother named the cheese that she made in that solitary, one-woman cheese factory, which was stolen from her in the bank crash at the turn of the century by those evil bourgeoisie roaders. Why they even tried to wipe out ol' Herbert's trail name, Fruit Pie the Magician!

Oh, I remember my father telling me the tale. How that name struck fear in the hearts of the civilized folk in the then-untamed West. How some poor soul would come running into town, barely able to spit out the words
. . . .

"Mr. Greaser! Mr. Greaser! Fruit Pie the Magician is back in town!"

But such is the way of truth. It gets lost in the day-to-day tedium, covered over by PR-types who just want to make you believe that the name Velveeta was dreamed up by a think-tank brain-storming session at some congealed cheese conglomerate headquarters! Oh, such is the postmodernist age!

And woe is me if I can't find the log book!

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.geocities.com/Athens/Olympus/9172>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 6 Aug 1998 19:00:11 EDT
From: Sachsarch@aol.com
To: qrp-1@Lehigh.EDU
Subject: [17010] Associated Heavy Equipment
Message-ID: <bc2fa5b2.35ca357c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Anyone ever have dealings with these folks? They are ham equipment dealers and rig modifiers.

Date: Thu, 6 Aug 1998 19:15:14 -0400 (EDT)
From: Paula Bailey <pmbail01@ox.slug.louisville.edu>
To: Ed Loranger <we6w@qsl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17011] Re: QRP to me.
Message-ID: <Pine.LNX.3.96.980806190411.24855A-100000@ox.slug.louisville.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

(snip)

Very well put. :) Basically, at least from what I've experienced just being on the list working towards a license, QRP seems to be what I would term the "friendly side of ham radio". :)

I'd originally gotten interested in ham radio thinking that it'd be really nice to meet folks across the country (or world) and have long-distance friendships...which got dashed, sadly, when I found out how much most "new" ham radio equipment cost (and that I would have to go over 100 miles even to find used equipment). From what I'd heard, nobody really

homebrewed anymore and Heathkit was out of business by then, so basically I was too skint to get into it at that point... :(

I got interested in QRP originally because, at least from what I'd seen on homebrewing (doing Alta Vista searches and whatnot), most of the interest in homebrew was in QRP. Homebrew, I can afford--I can buy the parts a little at a time, or see what I have in the junkbox. It's not like paying more for a radio than a computer... ;) That, plus I am an inveterate and incurable kit and "electronic jerry-rigging" addict anyways, so it lets me have a healthy outlet for that.

What has *really* pulled me in, and made me decide to go for the General if I can pass the 13wpm test is the people. Browsing the Usenet ham radio groups (even the homebrewing groups) and reading on here, I am becoming ever more convinced that the *nice* people--as in what I would consider the true spirit of elmering, as in helping the new guys out and actually mentoring them--are largely in QRP nowadays. This is what I originally started getting interested in ham radio for, and it's nice to know that's still alive. :)

Just my two pence.

-pb

(now to find something to do with all these Altoids boxes... :)

Date: Thu, 06 Aug 1998 18:53:14 +0000
From: "John R. Glazier" <glazier.john@mcleod.net>
To: QRP <qrp-l@Lehigh.EDU>
Subject: [17012] CB to 10
Message-ID: <35C9FB99.2CB2@mcleod.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A few weeks ago there was quite the discussion on the conversion of CB's to 10 M.. In particular the CB at Walmart and a RS model. Have I missed the conclusion of this project? I am very much interested and somehow all postings have stopped. Let me know if this has moved to another group. Once again thanks for your time. 73's John KB0YYZ

Date: Thu, 6 Aug 1998 18:34:16 -0600
From: "David Ek" <ekdave@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [17013] RE: Portable QRP--listen for me this weekend on 20m
Message-ID: <001501bdc19b\$1ca7e9e0\$bbac85ce@davidek>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

For those who care, I'll shoot for an operating window from 8 to 9 PM MDT
(0200-0300Z).

>I'm backpacking through the Lost Creek Wilderness this weekend, and I'll
>have my SW+20 along. Listen for me around 14.060 Friday and Saturday
>evening.

72,

Dave AB0GO

Date: Thu, 06 Aug 1998 20:54:33 -0400
From: beaks@westco.net
To: qrp-1@Lehigh.EDU
Subject: [17014] Thanks again!!
Message-ID: <35CA5049.82A@westco.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well again my questions were answered by many kind folk who took the
time to write about the common types of toroids. I now have a better
idea of what is out there and what to look for...

Thanks alot everyone!!

Arch N8EAG Fairmont, WV

Date: Thu, 06 Aug 1998 17:57:27 -0700

From: Pierre Constantineau <pierre@cmpe.ubc.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17015] Need info on Sentry swr meter
Message-ID: <35CA50F6.6BDAA321@cmpe.ubc.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi everyone,

I need some information on a small qrp power/swr meter
that I found at a ham swap a couple of years ago.

Sentry
Power/swr meter SW-77C

Small unit: 3.75 x 2.5 x 2 inches
With PWR/FWD/REF switch ans level set pot.

I would like to know if it is a good little unit.
Any documentation for it anyone?
I would also like to have a schematic if possible.
It does not seem to work. Do you think something can be done to repair
it?

Thanks
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Pierre Constantineau B.Eng      Email: pierre@cmpe.ubc.ca
M. Applied Sciences Candidate   Phone: (604) 822-2913
Flash Smelting Group           Fax: (604) 822-4750
Centre For Metallurgical       111-2355 East Mall
Process Engineering            Vancouver, BC, Canada
U. of British Columbia .ooo0   V6T 1Z4
http://noname.cmpe.ubc.ca ( )  Oooo. Amateur Radio: VE7JPC
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Date: Thu, 6 Aug 1998 20:58:43 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: //QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "+Doc W.D. Lindsey/K0EVZ"

<70511.3041@compuserve.com>
Subject: [17016] SOLD:SST-40 (assembled)
Message-ID: <199808062100_MC2-5556-FB0C@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Gang:

The SST-40 has been spoken for :-). Thanks for all the other replies received. Please permit me to keep your name(s) in the unlikely event the deal falls through. Good luck one and all.

72/73,
--Doc Lindsey/K0EVZ Rochester, MN--Home of the Mayo Clinic.
MWBC
519-16th Street SE
Rochester, MN 55904

Date: Fri, 7 Aug 1998 02:21:03 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: MelEvansGM6JAG@compuserve.com
Cc: qrp-1@Lehigh.EDU
Subject: [17017] Re: Quotation Verbosity Monitor Report
Message-ID: <199808070121.CAA27344@chuck.dallas.sgi.com>

Mel et.al.,

I agree. It is painful to keep seeing the attached messages. Everyone learn to use mailers. Go back through my five years of frequent posts. I probably have quoted less than 5 times the whole time. There is a reason for that. ;-)

So from now on, a count will be kept for those that wish to continue to repeat messages. When your count hits 5K bytes you will be put on probation. If it goes another 1K, you will be punished. :-) Someone start the stats just to check. Starting at 0 for everyone August 7, 1998 0200UTC. After that the net-police will be counting and they do know how to count.....

OK, while on the subject. Keep line lengths to 80 characters.
The reason: you can not assume that everyone has more than 80
characters per line using whatever font. Make sure that your
mailer isn't doing an auto-wrap and you aren't paying attention.
Read the manual please.

Also, keep the HTML stuff out of messages. Again, not everyone
is using some fancy mail reader that automatically strips the
characters.

I'll post the archive numbers later on when I get caught up
on some other stuff in the works. I am not doing this full
time gang..... Let's see just how many lines we are up
to this year.

Shorten the signature files. Have name, call, and QTH.
We all don't know where you are now days or who you are
in some cases.

Thanks for the support....

dit dit

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Thu, 6 Aug 1998 20:42:42 -0500
From: "Dale Botkin" <dbotkin@probe.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17018] Suggestions for DC receiver enhancement?
Message-ID: <000401bdc1a4\$aaaf01520\$0201a8c0@livingroom.botkin.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang,

I have an Oak Hills Sprint 40 xcvr that's been gathering dust for a couple
of years, along with all of my other equipment. I finally solved most of
the problem by selling anything that put out more than 5W, the only
exception being my V/UHF FM gear. I don't think I've been on the air with a
key, or on HF for more than a casual 10M SSB contact, in 3 or 4 years, but

have been listening to a few hours of W5YI code tapes a week in the car. I have to say it... Gordon West's voice is the best argument I can think of in favor of CW.

So, here's the problem. I love QRP, love homebrewing, and like the Sprint 40 just fine. Have a keyer and plan to add a FreqMite as well, just for fun. Only problem is, the DC receiver has some prodigiously wide bandwidth and all the normal problems you'd expect with a receiver of its type. If I can add one peice of gear that will vastly improve the receiver, what would you recommend? SCAF filter, DSP, or what? I don't expect it to work like my dear departed (via UPS) FT-757GX, but I wouldn't complain either.

I also have a built but unused R2 receiver board. Would I be better off using it for a receiver instead of the Sprint, maybe splicing it in to replace the Sprint's receive section and retaining the xmitter, VFO, xmit offset, & QSK? I plan to string up a "stealthy" end-fed wire and tune it with my homebrew tuner/reflected power meter, maybe spring for a ZM2 or Rainbow some day. Let me know what you think.

TU es 72,

Dale, n0xas
Omaha NE <http://www.botkin.org/dale/>

Date: Thu, 06 Aug 1998 21:45:05 -0400
From: Clay N4AOX <wyn@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [17019] Trouble with Capacitors
Message-ID: <35CA5C21.421E@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

AB7RU's query reminded me of a recent dismal experience I had with capacitors. I needed a one shot and a multivibrator in a circuit I was designing so went with the old 555. They're common as dirt so nothing could go wrong--wrong! I picked out some Radio Shack tantalums for the timing caps. Three leaked so bad that the trigger voltage never reached the 2/3 supply trip voltage. I finally got things settled down by going back to aluminum electrolytics, doubling the capacitance and halving the resistance.

It turned out the 1 uF aluminum electrolytics had less leakage than the 1 uF tantalums. The 2.2 uF aluminum electrolytic had about half the leakage of the 1 uF aluminum electrolytic. All were the same voltage rating. The handbook says "tantalum electrolytic capacitors perform better than aluminum units...". I thought that meant less leakage not more.

Have I just been afflicted with part tolerance variations or is this situation common? I tried three different RS 1.0 tantalum, one 2.2 uF aluminum and three 1.0 uF aluminum.

72/73,
Clay N4AOX

Date: Thu, 6 Aug 1998 21:31:31 -0400 (EDT)
From: Richard Brittingham <rbritt@visi.net>
To: Steven Weber <kd1jv@moose.ncia.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17020] Re: propagation
Message-ID: <Pine.GS0.3.96.980806212959.15033A-100000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

EA8AD commonly listens for SSB Qrpers when he is on 20 meters. He is usually around 14.200 or so. I worked him with 10 watts last night.

AND he has a QSL Mgr in Illinois.

73/72

Richard W4MCD

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Thu, 6 Aug 1998 22:27:38 -0400 (EDT)

From: art marshall <w1fji@vistech.net>
To: qrp-1@Lehigh.EDU
Subject: [17021] QRP/ICQ
Message-ID: <199808070227.WAA13951@44mag.vistech.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Here is the list as I currently have it as of 02:27:00 utc Aug 7, 1998,
73 Art w1fji

ICQ	CALL	NAME
110022915	AL7FS	JIM
8926297	N7MFB	BILL
12229242	KD5CKP	TIM
4090282	KB0PTE	WAYNE
2371572	N6CHV	MICHAEL
3541899	VE3FAL	FRED
7928709	N6EV	PAUL
4303107	N4ROA	DAN
10964945	KC2JZ	BOB
1778080	KE6VHM	FRANK
9306586	W1FJI	ART
10964945	KC2JZ	BOB
1778080	KE6VHM	FRANK
14707011	VE7VFN	VINCE
6647368	KA0AMA	MIKE
752216	KK5NA	JOE
7979667	WD4ET	JEFF
5788971	WB5QYT	TOM
1998180	AL7JK	JOHN
15170185	VE1VQ	DAVE
14823602	WB8RCR	JOHN
6355513	AA2VK	TOM
3509159	WJ50	BILL
11743003	HS2JFW	JOE
15276722	KG0MZ	JOHN
3343505	WA4EMR	DAVE
979128	BV3CCG	DANIEL
14531431	KB0LRB	LYNN

Date: Thu, 6 Aug 1998 09:30:34 -0500
From: "Randy Moore" <wr.moore@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: "Jim Stafford W4Q0" <w4qo@america.net>, "Chuck Adams"
<adams@chuck.dallas.sgi.com>, "Michael Maiorana" <mikemo@ibm.net>,
"L. B. Cebik" <cebik@utkux.utcc.utk.edu>, "Chuck Lewis" <clewis@ro.com>
Subject: [17022] QRP Forums at Huntsville, Aug. 15
Message-ID: <000101bdc146\$c593a120\$fc26430c@wrmoorerpc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here are the details of the QRP Forum at the Huntsville (Alabama) Hamfest, Saturday, August 15.

11:00 Chuck Adams - The Internet QRP Club and QRP-L
12:00 L.B. Cebik - KISS: QRP Antennas
1:00 Mike Maiorana - The Internet and the "Collective Elmer"
2:00 Jim Stafford - Getting started in QRP
3:00 Chuck Adams - CW Speed Copying Contest (QRP xcvr kit to the winner)

For those of you with Web access, you can see this schedule, and other details about the Huntsville Hamfest at <http://www.hamfest.org/hffest98.htm>.

We also have a bunch of door prizes that we'll give away, with donations from MFJ, Small Wonder Labs, Paul Harden (NA5N), QRP-ARCI, and MI QRP Club. The grand prize, a SW+40 kit, will be awarded to the winner of Chuck's CW Speed Copying Contest!!

The Hamfest doors open at 9:00 both Saturday and Sunday, so you'll have time to browse the flea market and vendor area (all inside the beautiful Von Braun Center), as well as hear lots of great QRP presentations. Admission is \$6 (under 12 is free).

Come help us make this event successful so we can do it again next year!

72,
Randy, KS4L

Date: Thu, 06 Aug 1998 21:13:26 -0600
From: Tim Pettibone <tpettibo@NMSU.Edu>
To: qrp-l@Lehigh.EDU
Subject: [17023] A Sweepstakes Winner!

Message-ID: <1.5.4.32.19980807031326.00673498@cnmailsvr.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Wow, got two ARRL certificates in the mail today. I won "First Place, Single Operator, QRP, New Mexico Section" for both CW and Phone. I've stopped keeping copies of my entries so I can't tell you the scores, we'll just have to wait for the QST postings. I do know that they were ridiculously lower than last years. But it doesn't matter - I had lots of fun. As long as my fellow NM QRPers keep forgetting to turn in their logs, I'll continue to win. Not a bad thing all in all.

Tim K5OI
Las Cruces, NM

p.s. The purpose of this post is to get you to turn in your logs for contests with QRP entries. Let's have a presence!

Date: Thu, 6 Aug 1998 21:37:24 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [17024] Solar 8-6 & Geomagnetic Storm
Message-ID: <Pine.SOL.3.91.980806211308.12236A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

As "they" say ... here's the good news and the bad news.

BAD NEWS FIRST ... there is a GEOMAGNETIC STORM in progress, reaching MAJOR levels earlier today but is now subsiding and should be back to normal quiet levels on friday and throughout the weekend. I just got off 40M (abt 9pm MDT) and it wasn't too bad ... some occassional crashing. This geomagnetic storm is believed to be caused by a Coronal Mass Ejection (CME) on August 1st, although one was not optically seen. The optical uncorrelated CME's were detected by SOHO ... which unfortunately is not operational right now. Thus, no advanced warning on this one.

THE GOOD NEWS ... SOLAR FLUX APPROACHING *150* !!!

=====

Now this is getting to be some seriously good solar flux numbers! If this is your first solar cycle, this would be a good weekend to play with 15 and 10M during daylight and "gray" hours. MUF's today were above

30 MHz! For you OT's used to working with sunspot numbers, we are right at 100 visible sunspots.

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

> THE GEOMAGNETIC FIELD WAS AT QUIET TO STORM LEVELS THROUGHOUT THE
> PERIOD. A TRANSIENT STRUCTURE WAS SEEN TO PASS ACE BEGINNING AT
> APPROXIMATELY 0644Z.

The ACE spacecraft has many of the instruments that SOHO has, such as solar wind detectors, etc., but is fairly close to the earth. Thus, detection of a burst in solar wind or shift in magnetic direction gives us very little advanced notice. SOHO is about 11 million miles from the Earth, and thus *was* able to provide nearly a days advance notice of activity that would trigger a geomagnetic storm.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
> EXPECTED TO BE AT UNSETTLED TO MINOR STORM LEVELS FOR THE NEXT 24
> HOURS AS THE CURRENT DISTURBANCE WEAKENS. EPISODES OF MINOR TO MAJOR
> STORMING ARE POSSIBLE DURING LOCAL NIGHTTIME HOURS FOR THE NEXT DAY.
> QUIET TO UNSETTLED CONDITIONS SHOULD END THE PERIOD.

> IV. PENTICTON 10.7 CM FLUX

> OBSERVED 06 AUG 138 <----- WOW!
> PREDICTED 07 AUG-09 AUG 145/150/150 <--- Double WOW!
> 90 DAY MEAN 06 AUG 109 <--- well above average

> V. GEOMAGNETIC A INDICES

> OBSERVED AFR/AP 05 AUG 006/009
> ESTIMATED AFR/AP 06 AUG 040/070 <----- MAJOR STORM LEVEL
> PREDICTED AFR/AP 07 AUG-09 AUG 015/030-005/018-005/010

^^^^^^^^^^^^^^^^^^

But quiet for the weekend

Enjoy the bands,
72, Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

"Where astronomy is looking up"

Date: Thu, 06 Aug 1998 23:40:31 EDT
From: we6w@juno.com (Ed Loranger)

To: tpettibo@nmsu.edu
Cc: qrp-l@Lehigh.EDU
Subject: [17025] Re: A Sweepstakes Winner!
Message-ID: <19980806.203501.4191.1.we6w@juno.com>

Yup, and especially operating the contest so you can have
a log to turn in in the first place.

I've got some cookies coming for my entry.. (Tks agn. Alan D.)
Do it folks. Fun and tastes good too!
-Ed

72, Ed WE6W QRP/CW only (VP-0). <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

On Thu, 06 Aug 1998 21:13:26 -0600 Tim Pettibone <tpettibo@NMSU.Edu>
writes:
>Wow, got two ARRL certificates in the mail today. I won "First Place,
<snip>
>p.s. The purpose of this post is to get you to turn in your logs for

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 6 Aug 1998 21:53:28 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: JACKS118@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17026] Re: Propagation on 40 meters
Message-ID: <Pine.SOL.3.91.980806213744.12236B-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 6 Aug 1998 JACKS118@aol.com wrote:
> Everyone is talking about how good 10m is now. I was wondering what
> 40 is like?
(snip per QRP-L protocol)

Jack (and others),
Actually, this is a VERY good question. Enhanced solar activity, that
is when the solar flux is high (>100), ionizes the upper E and F
layers for good skip propagation and higher maximum usable frequencies.

This is why 10M has been usable past few days, with the solar flux approaching 150. However, even during the quiet sun and very low solar flux (<100), the MUF seldom falls below 10-12 MHz.

THUS ... 40M is NOT generally affected by the solar flux, or for that matter, by the solar cycle itself. It is an "open band" virtually 24 hours a day, year in and year out, quiet sun or active sun. This is why it is such a popular band, especially for QRPers, as it is generally usable about any time you wish to use it.

What DOES affect 40M are absorption and a geomagnetic storm. A geomagnetic storm generates electric currents that makes HF noise in a $1/f$ function ... that is, the lower the frequency, the louder the noise. When you hear static crashes on the AM broadcast band, it's bad!

Absorption is caused by the D-layer ... the lowest of the layers. During the day, sunlight and radio radiation from the sun ionizes all layers ... E and F1/F2 for the MUF and skip ... and the D-layer ionization makes it dense. The denser it is, the more of your RF power it will absorb. This is why during the day, 40M supports QSO's mostly fairly close in and signals are fairly weak. The D-layer is absorbing much of your signal. At night, the electron density of the D-layer decreases, and signals can pass through it with less absorption. This means stronger signals at night. And by allowing more of your signal to pass through, they can not continue on to the E and F layers to be reflected back to Earth ... that is, for farther distance communications ... DX.

As a general rule, frequencies between 10-14MHz are the LOW end of what the solar flux has effect over, except in cases of severe solar disturbances.

SUMMARY: Above 10 MHz, the bands are dictated by the sun and its solar flux numbers.

Below 10 MHz, the bands are dictated primarily by the absorption due to the D-layer during daylight hours ... and the effects of a geomagnetic storm, if in progress.

72, Paul NA5N

Date: Thu, 6 Aug 1998 21:37:20 -0700
From: gsurrency@juno.com (Gary L Surrency)

To: wyn@worldnet.att.net
Cc: qrp-1@Lehigh.EDU
Subject: [17027] Re: Trouble with Capacitors
Message-ID: <19980806.213721.6710.0.gsurrency@juno.com>

Clay,

Make sure you aren't getting any where near the tantalum's rating voltage. I have seen these things go sour and leak badly if they ever get hit with a surge voltage over their ratings. Also, if you operate even *near* their stated working voltage, my experience has shown them to get leaky.

The short and sweet of it is: tantalums are fragile as to voltage ratings, and they don't always have low leakage. Low inductance, yes. But use mylar or polyester film if you really want low leakage.

72,

Gary Surrency AB7MY
S&S TAC-1(40&80m) ARK30 38S OHR100 w/KC-2 HW-9 TS-570D NC40A
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 6 Aug 1998 21:54:30 -0700 (PDT)
From: Bernie Doehner <bad@uhf.wireless.net>
To: qrp-1@Lehigh.EDU
Subject: [17028] sst question... 8V to NE612's and LM386.
Message-ID: <Pine.BSF.3.96.980806215227.1108A-100000@uhf.wireless.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gang:

Stupid off the wall question, but I can't answer it because www.questlink.com isn't working right now (for datasheet lookups).

Can't the NE602 (or in my case NE612) and LM386 handle a full 12-14 VDC?
WHY do they have to be driven by the same 8V as the VX0?

Doesn't driving the NE612's, and LM386's with full 12V produce larger

swing, and thus louder audio??

Thanks.

Bernie

P.S. My SST-30 is assembled, but not yet tested. Too tired...

Date: Thu, 6 Aug 1998 22:27:03 -0700
From: "Wayne Barnhart" <wb7whi@triax.com>
To: <gevans@lightspeed.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [17029] Re: Windows98
Message-ID: <003801bdc1c4\$03aa86e0\$798aebcd@waynebar>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Windows 98 is not a beefed up windows 95 and some confusion exists there. Drivers that worked in 95 may not work in 98. By now most vendors have updated drivers on their web site so check there first. Many vendors held off updating their drivers until the final release so some of the information has been slow getting out. Most of the issues with 98 come from 1 of 2 sources. The customer upgraded while a virus checking program was running or they need new drivers for sound, video, winmodem or whatever.

Wayne WB7WHI
Spokane Wa.
MS tech support.

-----Original Message-----
From: Gary Evans <gevans@lightspeed.net>

>This is not a qrp-related subject, but I'm hoping that someone in the
>group has an answer to my problem. I installed Windows98 yesterday and
>everything went okay with one exception. At the conclusion of the
>installation process I received the message that my display adapter was
>not configured properly. I am unable to set my monitor to display more
>than 16 colors. Prior to installing Windows98 I was able to display 256.

>After going through the "add new hardware wizzard" I got a message
>stating the device was installed, but that it had a problem. The next
>

Date: Thu, 6 Aug 1998 23:34:01 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Bernie Doehner <bad@uhf.wireless.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17030] Re: sst question... 8V to NE612's and LM386.
Message-ID: <Pine.SOL.3.91.980806231424.17142A-1000000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 6 Aug 1998, Bernie Doehner wrote:

> Can't the NE602 (or in my case NE612) and LM386 handle a full 12-14 VDC?
>
> Doesn't driving the NE612's, and LM386's with full 12V produce larger
> swing, and thus louder audio??

Bernie,

The VCC range for the NE602/NE612 is 4.5v to 9v. 9v is the maximum voltage that should be applied. However, running a 602 in the 8-9v range, near it's maximum rating, draws more current and has a higher noise figure. As a result, most designers limit it to 8v, or in some cases, will insert a diode between the 602 and +8v to cause a 0.6v drop to run it around 7v to be extra safe and lower the noise. Applying 12v WILL fry it.

The LM386's are suitable for +12v operation.

The LM386 is rated for +4 to +12v

The LM386A is rated for +5 to +18v

On the LM386, you will often see a 100 ohm resistor between the Vcc pin (pin 6) and +12v, bypassed with a .1 cap to ground. This is to keep the current fluctuations of the LM386 out of the dc power bus, AND causes a slight voltage drop so it runs a bit less than +12v for a slight measure of safety. The LM386A's are a bit more robust with their 18v rating.

Sometimes running an LM386 from +12v can cause "motorboating." If this should occur, then bypass the 100 ohm resistor to the Vcc pin with a large value electrolytic (instead of the .1uF), or lower the Vcc below 12v.

Your concerns are justified. Always operate passive and active components well within their maximum ratings. As Gary Surrency noted on a previous post, tantalums are known to leak, or outright "blow" by exceeding their maximum rating by only a bit. Another common error I see is the coupling cap between the PA transistor and the output filter. At 5W, you have 47Vpp, and a capacitor with less than a 50V rating will experience excessive heating. The same holds true for the caps in the output filter. 16V dipped mica's will get hot, increase the power dissipation, leaving far less power to actually reach the antenna.

GL, Paul NA5N

Who's blown a few tantalums myself!

Date: Thu, 6 Aug 1998 22:38:47 -0700 (PDT)
From: Bernie Doehner <bad@uhf.wireless.net>
To: Paul Harden <pharden@aoc.nrao.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17031] Re: sst question... 8V to NE612's and LM386.
Message-ID: <Pine.BSF.3.96.980806223626.1226A-100000@uhf.wireless.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Bernie,
> The VCC range for the NE602/NE612 is 4.5v to 9v. 9v is the maximum
> voltage that should be applied. However, running a 602 in the 8-9v
> range, near it's maximum rating, draws more current and has a higher
> noise figure. As a result, most designers limit it to 8v, or in some
> cases, will insert a diode between the 602 and +8v to cause a 0.6v
> drop to run it around 7v to be extra safe and lower the noise.
> Applying 12v WILL fry it.

AH... The voice of reason. Thanks. 8V it is in the unmodified SST. Shall leave it that - thanks..

> The LM386's are suitable for +12v operation.
> The LM386 is rated for +4 to +12v
> The LM386A is rated for +5 to +18v
>
> On the LM386, you will often see a 100 ohm resistor between the Vcc
> pin (pin 6) and +12v, bypassed with a .1 cap to ground. This is to
> keep the current fluctuations of the LM386 out of the dc power bus,
> AND causes a slight voltage drop so it runs a bit less than +12v for

> a slight measure of safety. The LM386A's are a bit more robust with
> their 18v rating.

Not in the SST design, it goes to the 7808 instead..

> Sometimes running an LM386 from +12v can cause "motorboating." If
> this should occur, then bypass the 100 ohm resistor to the Vcc pin
> with a large value electrolytic (instead of the .1uF), or lower the
> Vcc below 12v.

I may try this to see if I can get a bit more audio out of it, thanks for
the warning though.

> Your concerns are justified. Always operate passive and active
> components well within their maximum ratings. As Gary Surrency noted
> on a previous post, tantalums are known to leak, or outright "blow"
> by exceeding their maximum rating by only a bit. Another common
> error I see is the coupling cap between the PA transistor and the
> output filter. At 5W, you have 47Vpp, and a capacitor with less than
> a 50V rating will experience excessive heating. The same holds true
> for the caps in the output filter. 16V dipped mica's will get hot,
> increase the power dissipation, leaving far less power to actually
> reach the antenna.

:)

Oh yes... Thanks!

Bernie

Date: Thu, 06 Aug 1998 22:48:46 -0700
From: Bill Todd <bill@willapabay.org>
To: mikerice@abtcorp.com
Cc: qrp-1@Lehigh.EDU
Subject: [17032] Re: Windows98
Message-ID: <3.0.5.32.19980806224846.0079a7b0@willapabay.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:13 PM 8/6/98 -0700, you wrote:
>go to Start/Programs/MS DOS Prompt(be brave)

Hi Mike -

You know, your demonstration of familiarity with DOS commands reminds me of a conversation I had recently with a computer tech support person.

The tech person said to me; "DOS is pretty much useless now a days"

Yea, sure...

Of course, the Unix folks might agree.

CUL, Bill-N7MFB

<http://www.willapabay.org/~bill>

ICQ # 8926298

Date: Fri, 7 Aug 1998 00:53:17 -0600
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: qrp-l@Lehigh.EDU
Subject: [17033] Heath GR-91
Message-ID: <1.5.4.16.19980807005132.1a1737e2@cadvision.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang!

A friend of mine (VE6HFW) has an old GR-91 receiver that is dead and he is looking for a manual to get the thing back to life. Any info on this or a website where we can find out more?

72 de Niels
VE6NJK/TF3NJ

PS: Will be camping this weekend and bringing my 38S with me so listen around 10.110-10.116MHz saturday night.

Date: Fri, 07 Aug 1998 09:29:33 +0200
From: Peter De Schrijver <dh2fby@hrz.uni-kassel.de>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17034] Layout and schematic for FREE !

Message-ID: <35CAACDC.966B8EF9@hrz.uni-kassel.de>

MIME-Version: 1.0

Content-Type: text/plain; charset=iso-8859-1

Content-Transfer-Encoding: 8bit

Hi !

I have seen a couple of requests for pcb layout (and schematic) software . Cadsoft recently give away a LIGHT version of their programm called "eagle" for non-profit use . It runs under Win95/NT , DOS and even OS/2 and is available in English or German language.

I am NOT an employee of cadsoft , nor do I gain any advantage from posting this message .

I just thought it is worth looking at , or trying out . Small TRX s like the PIXIE 2 or SMITE fit easily onto 100 x 800 mm !

The www address is : www.cadsoft.de or www.cadsoftusa.com

So : have fun

Peter De Schrijver , dh2fby

dh2fby@hrz.uni-kassel.de

PS: That s what they say about the LIGHT version on the homepage :

<http://www.cadsoftusa.com/freeware.htm>

The EAGLE 3.5 Light Edition can be used for free!

Limitations

The following limitations apply to the EAGLE Light Edition in general:

The useable board area is limited to 100 x 80 mm (4 x 3.2 inches).

Only two signal layers can be used (Top and Bottom).

The schematic editor can only create one sheet.

Apart from these three limitiations the EAGLE Light Edition can do anything the

Professional Edition can do. You can even load, view and print drawings that exceed these limits!

The Freeware version of EAGLE Light adds these limitations:

Support is only available via email or through our forum (no fax or phone support).

Use is limited to non-profit applications or evaluation purposes.

What does "non-profit" mean?

The definition of non-profit is fairly simple and straightforward:

If you earn money by using the Freeware version of EAGLE Light, you have to register it.

This allows anybody who wishes to use EAGLE Light for their private hobby projects to do so.

Also students can use this version for any educational projects. It is even ok to use this version in a commercial environment, as long as you just want to evaluate the program.

As soon as you start using it for commercial projects, you will have to register it.

Date: Thu, 6 Aug 1998 09:10:57 +0100
From: Dick Pascoe <Dick@kanga.demon.co.uk>
To: bmug@gwl.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17035] Re: London
Message-ID: <o3ZzbIARUWy1Ewaz@kanga.demon.co.uk>
MIME-Version: 1.0

In message <01BDC052.DCE83A60.bmug@gwl.com>, Brad Mugleston <bmug@gwl.com> writes
>My in-laws are going to London next month and I was wondering if there was
>anything over there they should bring home for me that I can't get over
>here?

Tea, American tea is not the best!
(I first wrote 'YUK' but didn't want to offend.. :-)

TTFN de ..

--

Dick Pascoe G0BPS
Kanga Products
Seaview House, Crete Road East
Folkestone CT18 7EG U.K.
Tel 44 (0) 1303 891106
<http://www.kanga.demon.co.uk>

Date: Fri, 07 Aug 1998 10:33:10 +0100
From: Rogerio Gonzaga <gonzaga@med.up.pt>

To: qrp-1@Lehigh.EDU
Cc: peter@barville.demon.co.uk
Subject: [17036] A Tale from Atlantida
Message-ID: <3.0.5.32.19980807103310.009283e0@mail.med.up.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A TALE FROM ATLANTIDA

Once upon a time there was a beautiful land called Atlantida, in a lost Continent in the middle of some unknown and far ocean. The people of this Reign were highly respected all around the world by their high standards of technique and science. They were called Honest Able Minds, or just HAMs. They were ruled by a Council of wise men, under the paternal look of an old magician, the old Charley, that although being abstinent, was called, by any long forgotten reason, Charley Whiskey, or just CW, by all the members of the biggest national Fraternity.

The Fraternity itself was known as the CW group. One of the highest authorities on this Reign was the beloved Queen Regina Patricia, to whom the people cheerfully called QRP. Most of her support came from the CW Fraternity. To be a member of the CW Fraternity one should have a special power, whose exact nature is not known after so many years, but it apparently allowed them to communicate at great distances without any sophisticated device. Some authorities defend that this was due to pure mind power, but the most recent scientific studies suggest that they had the privilege of being able to use some kind of strange language that could run very long distances, supported just by very simple devices. With such a power, they were between the highest dignities in Atlantida, and they were highly respected by their performance in communicating with people all around the World.

Of course there were groups in this far Continent that wanted to take the place of the CW Fraternity, one of those being the Cancelled Brains, or CB, many of them eventually finishing to have partial and restricted access to the Ham's temples after proofing to be able of some performances, but their access was restricted because they did not have the strange powers of the true members of the Fraternity.

Being Humanity like it is, they could not stand with not having the power of transmitting what they wanted without using very sophisticated and expensive devices, and they have eventually filled the ranks of some HAM subgroups like the Silly Supporters of Badmanners, also called SSB, the Rapid Throwers of Treasures to the Yard (calling themselves RTTY) or the Sad Situationists of Transmitted Violence, well known then as SSTV. All of them also tried to bring back to power and old dictator, the terrible Queen Regina Olga, whose followers called just QRO. By small steps they could slowly invade almost all the places where the CW Fraternity used to meet, but they were unhappy because they were still unable of duplicating their strange powers. To finish with the CW Fraternity hegemony there would be then only one solution, which was to create a new Society, based in

different values, where the ability of communicating with other peoples in other parts of the world would not be anymore a question of skill and intelligence, but a matter of power and money.

By that time, so many years ago, men were not the good and pacific beings that they are now, and the only way of discussing their differences of opinion was no less than the War. But the CW Fraternity was strong and coherent, and soon the opposition has understood that any military victory would be impossible and had to resort to the political war.

In those times, there were people in the CW fraternity, like in nowadays structures, that wanted to stay in the History at any price, and those men could by then be seduced to open the castle doors to the enemy (do not forget that this happened in the Atlantida epoch, nowadays this would be if not impossible, at least highly unlikely). And they were those men from the CW Fraternity that started fighting the CW Fraternity reasons, until the day when the highest personalities of a very strong Organisation, the Regular Scientists of the Golden Boat, suddenly and unexpectedly stepped forward with a strong attack to the CW Fraternity. There is some support to the thesis that they apparently were not backed by a previous survey between his members, but most scientists refuse to believe that even in those primitive epochs the leaders of such an organisation would take an attitude against their own membership.

There is little historical evidence of the subsequent attitude of the then principal Party in Atlantida, the All Respected Royal Luminaries, but there is a suspect that their leaders eventually turned to feedback those attacks, for the fear of being considered outdated.

There is then an obscure period of time in the History of Atlantida, but some recently discovered documents from a subsequent period of their lives failed to find any reference to the CW Fraternity, and the modern Historians believe that they were by then extinct. There were plenty of references to the new rulers of the Reign, including the powerful Queen Regina Olga, but no mention about the previous leaders of the Regular Scientists of the Golden Boat, that seem not to have conquered the so desired honourable place on the HAM's History.

As everyone knows, Atlantida eventually has sunk later in the Oceans, and there were no known survivors to tell the fate of the HAMs. Some investigators believe that a few of them could have survived and that their descendants could be a well known contemporary people of obscure origin, the New Egocentric Traders (or NET) people, but most scientists refuse to see any serious analogy between the NETs and the HAMs.

It is questionable if the fate of the HAMs would be the same if the CW Fraternity still existed when the Oceans took the Atlantida. Maybe their skills could have contributed to the salvation of many people, or maybe not. Anyway, an extensive research is on the way, trying to find more details about this very interesting people so long extinguished.

SOME NOTES ABOUT THE TALE FROM ATLANTIDA

1. I have always liked tales and could not resist telling this one, although I must apology for the English not being my first, or even my second language. I must also apology for the bandwidth, but I have not been able to reduce the text any more.
2. For those who do not like tales, to whom I am very sorry to have disturbed, I respectfully suggest the use of a software filter to exclude the word Tales.
3. To those who think that this tale has strictly nothing to do with the L-QRP reflector, I must confess that they are right, and that any similarity with some contemporary problems is a coincidence. Please forgive my compulsory wish of telling tales.
4. For the same reasons, I would respectfully ask those who could wrongly think that this tale represents my position about some recent events and do not agree with what they think I could be defending, to restrain from insulting me.

That is all, thanks to those who took their time for reading me. Best 72/73
de Roger, CT1ETT

Date: Fri, 7 Aug 1998 08:02:08 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [17037] PROPAGATION CHARTS
Message-ID: <300bf0cd.35caecc1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I recently lost some web addresses. Can someone share with me JERRY HALL'S website. (He has the PROPAGATION CHARTS like in QST but they have a curve for QRP power levels plotted)
Alan KB7MBI

Date: Fri, 07 Aug 1998 08:42:39 -0500
From: John Burnley <JBurnley@ifmc.org>
To: qrp-l@Lehigh.EDU
Subject: [17038] Iowa QRP at Summerfest '98

Message-ID: <s5cabe06.053@ifmc.org>

Mime-Version: 1.0

Content-Type: text/plain

Content-Disposition: inline

This is just a reminder that the Iowa QRP Club will have a table at the Summerfest '98 in Amana, Iowa to promote low power operations. The club will have several rigs on display as well as other items.

The club will be giving away (as our grand prize) an autographed copy of Paul Harden's 'Electronic Data Book for Homebrewers and QRPers' which was generously donated to us by Paul (NA5N). We will also have some MFJ mugs (donated by MFJ) as door prizes. The Tick-EMB keyer kit (donated by Embedded Research) will also be on display. The keyer kit will be the grand prize for a 'soon to be announced' building contest for members.

We will also have information/literature for NorCal, QRP ARCI, Kanga US, Emtech, MFJ, Wilderness Radio, MFJ 90's newsletter, Embedded Research, G-QRP Club, and Ten Tec. We will also be selling some goodies (QQ back issues etc.) for ARCI. If any other clubs or vendors would like their information displayed at future events, just send me an Email.

There will be a gathering for lunch at the Brickhaus at 12:30. I'll have directions at the table or Email me (before Sunday) at my home account burnley-ia@worldnet.att.net. The Brickhaus comes highly recommended from several members.

Hope to CU in Amana!

72/73, John NU0V

!

Date: Fri, 07 Aug 1998 09:47:05 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [17039] Re: Trouble with Capacitors
Message-ID: <35CB0559.525C@arrl.org>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tantalums are considered better than ordinary electrolytics in the RF bypassing context. For timing applications, I've always liked the idea of an easily measured clock and divider chip, if you need long delays.--Zack W1VT

Date: Fri, 07 Aug 1998 09:10:42 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>
Subject: [17040] QRP Items for Sale
Message-ID: <35CB0AE1.D8D57757@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have the following items for sale:

1. Unassembled 38 Special kit with Hauff (KE6RIE) special enclosure.
\$55 plus shipping.
2. Unassembled Wilderness Radio Norcal 40A (version B) 2 watt 40 meter transceiver. \$115 plus shipping.
3. The Electronics of Radio: EE20 Two-term introduction to electronics
course based on the progressive construction of the Norcal 40A.
(California Institute of Technology) Like new condx. \$12 plus shipping.
4. MFJ 9020 5 watt 20 meter transceiver with MFJ curtis keyer and MFJ plug in audio filter. Rarely used. \$140 plus shipping.
5. MFJ 4114 Rechargeable battery back (with batteries)
\$40 plus shipping.
6. MFJ 9406X 6m SSB transceiver w/microphone \$160 plus shipping.
\$175 plus shipping with CW adaptor (SEE BELOW)
7. MFJ 416 CW adaptor for MFJ 9406X. (new in box) \$20 plus shipping.
8. Six Meters, A Guide to the Majic Band. Written by WB2AMU. First

edition. Best guide to six meters ever written \$5 plus shipping.

9. Icom IC-24AT multiband HT. Icom BC-72 deskcharger. Original battery plus two high capacity battery packs. UT-50 tone squelch. \$275 plus shipping.
10. ARRL Handbooks (hardcover and soft) Numerous years. A little late for Elmer 101 if you still need one (and who doesn't), let me know and I will tell you which years I have left.

Thanks for reading. If interested. Please contact me by email (preferably)
or at 314-394-2238. 73 de Dave, N0IT

Date: Fri, 7 Aug 1998 09:55:34 -0500
From: jeffrey davis <jeff@jehosophat.com>
To: QRP-L List <qrp-l@Lehigh.EDU>
Subject: [17041] Re: PROPAGATION CHARTS
Message-ID: <19980807095534.A12820@jehosophat.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Quoting ARDUJENSKI@aol.com (ARDUJENSKI@aol.com):
> I recently lost some web addresses. Can someone share with me JERRY HALL'S
> website. (He has the PROPAGATION CHARTS like in QST but they have a curve for
> QRP power levels plotted)
> Alan KB7MBI

<http://www.concentric.net/~jerrhall/>

Vy 72 de n9avg,
--
jeffrey davis
jeff@jehosophat.com

Date: Fri, 7 Aug 1998 10:00:56 DST
From: dannyayers@juno.com (Danny K Ayers)
To: sjolin@swbell.net
Cc: qrp-l@Lehigh.EDU
Subject: [17042] Re: QRP Items for Sale
Message-ID: <19980807.100112.-366487.5.dannyayers@juno.com>

MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Dave,

I'd like item 3 if still available...

72,
Danny -WX4P
Huntsville, AL

On Fri, 07 Aug 1998 09:10:42 -0500 Dave Sjolín <sjolin@swbell.net>
writes:

>I have the following items for sale:

>

>

>3. The Electronics of Radio: EE20 Two-term introduction to

>electronics

> course based on the progressive construction of the Norcal 40A.

> (California Institute of Technology) Like new condx. \$12 plus

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 07 Aug 1998 09:58:25 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>
Subject: [17043] Qrp Items for Sale: Fixer-uppers
Message-ID: <35CB1610.6F0CA7FB@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have for sale the following two items at below market price for those
who have the time and talent to repair.

1. MFJ 971 Portable Antenna Tuner. 200 watts. With meter.
reflected power portion of meter has never worked. Could
be something I missed or maybe meter is bad. \$30 plus shipping.
2. Astron RS-20 Solid 16 amp power supply. 20 amp surge. Minor

scratches on top. Worked fine until one day when I went to turn it on, the on-off switch was froze in place. My guess is the switch is bad. \$40 plus shipping.

I think these prices are reasonable but since I have never bought or sold non-functioning equipment, I am willing to consider reasonable offers

Thanks for reading. Please respond via email. 73 de Dave, N0IT

Date: Fri, 7 Aug 1998 11:20:42 EDT
From: ARDUJENSKI@aol.com
To: jeff@jehosophat.com, owner-qrp-l@Lehigh.EDU, qrp-l@Lehigh.EDU
Subject: [17044] Re: PROPAGATION CHARTS
Message-ID: <24eecf01.35cb1b4b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

SPECIAL THANKS to Pete (KC8ER) and Jeff (N9AVG) for such a quick response. This is a super site if you have not been there. Folks were asking about PROPAGATION on various bands and this is a great tool in picking a range of probability for various propagation.

Remember what is good for EAST COAST-WEST COAST may not be good for Europe or Far East or South America. I have used this successfully for almost the past year.

If some of you have trouble figuring it out maybe one of the *experts* on the list might provide a good explanation

Alan KB7MBI

Date: Fri, 07 Aug 1998 10:30:03 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>
Subject: [17045] QRP items for Sale
Message-ID: <35CB1D7B.538B7D2F@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The following two items have been SOLD. Sorry.

3. The Electronics of Radio: EE20 Two-term introduction to electronics course based on the progressive construction of the Norcal 40A. (California Institute of Technology) Like new condx. \$12 plus shipping.

8. Six Meters, A Guide to the Majic Band. Written by WB2AMU. First edition. Best guide to six meters ever written \$5 plus shipping.

73 de Dave, N0IT

Date: Fri, 07 Aug 1998 11:47:56 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-1@Lehigh.EDU
Subject: [17046] Re: Quotation Verbosity Monitor Report
Message-ID: <35CB21AC.21CE@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Would grid squares be the most efficient way of listing QTHs?--Zack W1VT FN31/FN33.

Date: Fri, 7 Aug 1998 08:47:59 -0700
From: Conrad <radman@best.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: "'glazier.john@mcleod.net'" <glazier.john@mcleod.net>, "'Steven Weber'" <kd1jv@moose.ncia.net>
Subject: [17047] re: CB to 10 (update)
Message-ID: <01BDC1E0.1527B200.radman@best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Gang,

The CB-to-10 AM or "11-2-10M" project is still alive and

well. The CB PLL mod kit is in the development laboratory of Steve "melt solder" Weber and will be available those interested in "revival 10AM" in the near future. Steve has successfully prototyped the Maxon CB-to-10AM conversion and it is believed that the same conversion is applicable to the RS "sale" radio that was available through Aug 1st. Additionally, there are other CB sets that closely resemble the Maxon architecture (fancy word!) and these should also play with the Weber kit. Your *easiest* path is probably to stay with Maxon or RS due to documentation.

And, will there be 10Meter AM Zombies?... well, anything's possible I suppose :)

Bottom line: we just need to wait it out til Steve has kitted the first 50 to 100 PLL conversion boards. Perhaps, Steve Weber will post a few words on the status of this project today....

10AM... it rocks,

72 - Conrad Weiss - NN6CW

Date: Fri, 07 Aug 1998 11:48:36 -0400
From: Paul Helbert <phelbert@rica.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17048] Itsy-bitsy batteries
Message-ID: <35CB21D4.785F4224@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue,

While at home supposedly working on taxes, I made a discovery. I found a dead (7.4 volts) R/S Alkaline 9 volt battery and decided that I might want to use the case &/or connector for a project. Pried the top crimp open with pliers, removed the connector and voila: there were six little batteries arranged vertically looking up at me. Last time I had a 9 volt battery apart it contained little wafer cells that blackened my fingers. These cells are almost exactly the size of AAAA cells (same diameter, less than a millimeter longer). They weigh less than 10 grams each.

Think what eight or nine of these babies can do for lightening up your backpacking setup. My SW40+ now draws 6.5 to 12 mA on receive and less than 100 mA key down. Panasonic alkaline AAA batteries have a rated drain of 25 mA. These are smaller so maybe not much good for transmitting.

Next I found an old R/S NiCad. It contained six cells also, but they are shaped like the old black, waxy wafers of my youth, only they are nice metal jobs. These cells also look like good candidates for powering a QRP field station. Anyone know the rated drain for these? I guess it'd be higher than for the alkalines.

I wonder if those tax papers are any farther along...?

72,

Paul, Wv3j

Date: Fri, 7 Aug 1998 08:57:57 -0700 (PDT)
From: Bernie Doehner <bad@uhf.wireless.net>
To: qrp-l@Lehigh.EDU
Subject: [17049] NiMH batteries for SST?
Message-ID: <Pine.BSF.3.96.980807085524.795A-100000@uhf.wireless.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gang:

Thanks for the NE612/LM386 comments. I might try the 386 at 12V, but only after the SST30 is fully working and I added a heftier cap to the 12V line.

Have any of you tried fitting a slim 12V NiCad or NiMH pack inside the enclosure? Can't imagine I'd be able to fit any more than 200-300 mAHr, but still something I'd like to persue.

Thanks.

Bernie nu1s/6

Date: Fri, 07 Aug 1998 11:53:50 EDT
From: w4pj@w4bkx.ampr.org
To: qrp-l@Lehigh.EDU
Subject: [17050] 10m and early lunch
Message-ID: <16449@w4bkx.ampr.org>

Early lunch today. So... turned on rig and tuned 10m
wkd Dick K3DI in MD on 28255+/- (didn't write down exact freq)
heard beacons: 1533Z 28214.0 N3BUB/B FN20fv 5W
1542Z 28269.5 W3HH/B ER90 Pittsburgh 8Watts
1548Z 28296.0 W3VD/BCN JHU/APL FM19ne
and NCDXF BCN 1551Z 28200.0 4U1UN

10M not dead, but called CQ on 28040 for 1/2 hr and nothing heard in response.
Heard the CBers on 28XX5s with rogerbeeps en Espanol.
Seems we are giving the band away from disuse.

de W4PJ / Scott #1585
----- 73 -----

Date: Fri, 07 Aug 1998 09:14:36 -0700
From: Jim Lowman <jmlowman@ix.netcom.com>
To: adams@chuck.dallas.sgi.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17051] Re: Quotation Verbosity Monitor Report
Message-ID: <35CB27EC.C6B9CBA8@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Chuck Adams wrote:

>

> Mel et.al.,

<snip>

> OK, while on the subject. Keep line lengths to 80 characters.
> The reason: you can not assume that everyone has more than 80
> characters per line using whatever font. Make sure that your
> mailer isn't doing an auto-wrap and you aren't paying attention.
> Read the manual please.

<snip>

This is an area that I'm guilty of from time to time. It would be nice if mail software (I use Netscape Communicator 4.0 at the office and Eudora Pro 3.0 at home) had a built-in ruler, a la most good word processors, to help with this task. If someone knows how to turn this feature on in either of the above mailers, please let me know.

72 de Jim - AD6CW

Date: Fri, 07 Aug 1998 12:23:46 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@Lehigh.EDU
Subject: [17052] sched Sat. 8/8 01:00 utc
Message-ID: <3.0.5.32.19980807122346.007e0ec0@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'll be on 40 meters this Saturday, 8 at about 01:00 utc. I will be calling cq using my Sierra into a 40m hamstick dipole which is in my attic. I believe the rig will be doing about 3 or so watts. I decided that since I am sending my Kenwood in for work, I might as well see what can be done here. As ashamed as I am to admit using 25 watts, I have found that I was not able to make contacts at 5 watts or less. Now this could be due to several factors and certainly the antenna has something to do with it. I am trying to prepare for the 13 wpm test to finish upgrading to general. So, decided that I would have to break the law and operate at a higher power level to at least ensure or help me get some contacts. So, maybe I'll be proven wrong and it was more bad timing than anything else as far as being able to make contacts. Ok, in any case I'll be on. I won't hook that Kenwood up unless I get really bored after no contacts.<grin>

72/73 de n3byy
Fists 5030

Date: Fri, 07 Aug 1998 10:32:44 -0600
From: Pat Byers <pbyers@rttinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17053] Solar 8-6 & Geomagnetic Storm
Message-ID: <3.0.5.32.19980807103244.007f9270@mail.rttinc.com>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi all,

For once I didn't need Paul's informative reports to announce the geomagnetic storm.

Last evening the attendees at the Edmonton Folk Music Festival were treated to a spectacular display of Aurora Borealis above the main stage during Joan Osborne's set around 10:30 to 11:00 pm. Very unusual to see the northern lights over the background of the city lights. In this case we had the additional light pollution of an almost full moon rising at the same time. Thought to myself (very briefly), "Hmmm . . . wonder what this is doing to hf and vhf propagation?" Then, back to the concert.

Joan was superb. Hard to believe there is more to life than QRP Ham radio. :)

73,

Pat Byers, VE6AAN
Lacombe, AB

Date: Fri, 7 Aug 1998 16:38:19 +0100
From: wd3p@juno.com (Larry Cahoon)
To: zlau@arrl.org, qrp-1@Lehigh.EDU
Subject: [17054] Re: Quotation Verbosity Monitor Report
Message-ID: <19980807.163820.14510.3.wd3p@juno.com>

>Would grid squares be the most efficient way of listing QTHs?

Zack and the group,

Grid squares are good on 6 Meters - that is what everyone wants. But a lot of guys don't a clue what a grid square is. I don't know where they are without checking a chart. The Europeans seem to like to put them on their card all the way down to the last two letters. I have followed suit and done the same. If you can figure them out they give the most accurate position short of going to lat. and long.

For the list posting, state is good enough for me.

For QSL cards I like to see grid square and county. There are guys

collecting grid squares on HF and I collect counties. For me getting WAS is just too easy. Neither grid squares or counties can be matched to the other with any accuracy. I have gotten all sorts of info or lack thereof on QSL cards. I would guess upwards of 20% of the cards don't have county. Best example of a poor card was a DX station in the US for some contest. All his card told me was that he was in the fourth call area. Then there was the stateside fellow whose card only identified his QTH down to the state. No county, much less an address.

72/73 de Larry.....WD3P.....Prince George's County
MD.....FM18or

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Date: Fri, 7 Aug 1998 10:45:54 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Pat Byers <pbyers@rttinc.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17055] Re: Solar 8-6 & Geomagnetic Storm
Message-ID: <Pine.SOL.3.91.980807103954.139B-1000000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 7 Aug 1998, Pat Byers wrote:

> Last evening the attendees at the Edmonton Folk Music Festival were treated
> to a spectacular display of Aurora Borealis above the main stage during
> Joan Osborne's set around 10:30 to 11:00 pm. Very unusual to see the
> northern lights over the background of the city lights.

For those of us living out in the desert around 32 degrees N latitude, we're dying from ENVY. It is indeed a VERY rare occurrence to see the northern lights here ... and when it does occur, it is usually no more than an indistinct reddish glow on the northern horizon. Many of us would love to see an auroral display someday. So treasure your experience ... not everyone gets to enjoy that.

Some of us are jealous :-)

72, Paul NA5N

(But we do have lightning storms that are a close second!)

Date: Fri, 07 Aug 1998 12:46:09 EDT
From: kh6b@juno.com (Dean W Manley)
To: qrp-1@Lehigh.EDU
Cc: kh6b@juno.com
Subject: [17056] -Zack W1VT FN31/FN33.
Message-ID: <19980807.064759.5391.0.kh6b@juno.com>

Zack W1VT wrote:

>Would grid squares be the most efficient way of
>listing QTHs?--Zack W1VT FN31/FN33.

Yes, I agree, Zack.

Dean KH6B BK29kp

Aloha from Hilo HI

Date: Fri, 7 Aug 1998 09:51:02 -0700 (PDT)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: Zack Lau <zlau@arrl.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17057] Re: Quotation Verbosity Monitor Report
Message-ID: <Pine.LNX.3.96.980807094918.1655A-100000@topaz.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 7 Aug 1998, Zack Lau wrote:

> Would grid squares be the most efficient way of
> listing QTHs?--Zack W1VT FN31/FN33.

I don't know much about the discussion you're currently in, but let me just say that specifying a grid-square is a good thing. It eliminates the need to specify a country and state, all in four characters. :-) About the only thing I'd append to the grid-square is the city name, as it is possible for more than one city to be located in a single grid square.

For example, I'd be DM13-Oceanside.

Does this answer your question?

```
=====
KC5TJA/6      |      -| TEAM DOLPHIN |-
DM13          |      Samuel A. Falvo II
QRP-L #1447   |      http://www.dolphin.openprojects.net
=====
```

Date: Fri, 07 Aug 1998 13:13:55 EDT
From: w4pj@w4bkx.ampr.org
To: qrp-l@Lehigh.EDU
Subject: [17058] Early lunch / 10m / and grid square LOC
Message-ID: <16463@w4bkx.ampr.org>

Sorry, I forgot to include my LOC in earlier post.
Early lunch today. So... turned on rig and tuned 10m
wkd Dick K3DI in MD on 28255+/- (didn't write down exact freq)
heard beacons: 1533Z 28214.0 N3BUB/B FN20fv 5W
 1542Z 28269.5 W3HH/B ER90 Pittsburgh 8Watts
 1548Z 28296.0 W3VD/BCN JHU/APL FM19ne
and NCDXF BCN 1551Z 28200.0 4U1UN

10M not dead, but called CQ on 28040 for 1/2 hr and nothing heard in response.
Heard the CBers on 28XX5s with rogerbeeps en Espanol.
Seems we are giving the band away from disuse.

de W4PJ / Scott Ft. Lauderdale, FL EL96vd #1585
----- 73 -----

P.S. Am now hearing:W3VD/BCN, W0ERE (Beacon) 5W EM36 on 28282.7

Date: Fri, 07 Aug 1998 17:28:23 -0700
From: "Harvey D. D. Hetland" <n6mm@earthlink.net>
To: QRP-L@Lehigh.EDU
Subject: [17059] Re: Quotation Verbosity Monitor Report
Message-ID: <35CB9BA6.4C9@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I do not think the grid square for QTH identification would be efficient except in a VHF/UHF environment. For myself if the grid square is not adjacent to my own it would have no meaning to me, because I seldom can find my copy of the 11 by 17 inch map.

Good judgement based on the content of a message should dictate the inclusion of the location. A recent posting asked a question about 40m propagation at a particular time given in an apparent local, 12-hour format with no indication as to whether a.m. or p.m. or even the time zone. Only the callsign was given, but today that could be anywhere between the Atlantic and the Pacific. I shook my head after debating whether to point out privately the weakness of the posting, and I hit the delete key.

If you want a good response to your message you should market it well. Many potential readers are quick with the delete key. The same probably applies to the issue of spelling and grammar, That is not intended as flame material. It is only a suggestion and observation if you seek a better response.

Now to get back to QRP stuff. I managed a QSO with Gody, AC6UV, on 7040 kHz around 0530Z on Aug 6th UTC. Ed, WE6W, managed to arrange for Gody to get a fresh supply of bug repellent at his next supply drop. He had very good signals. Last night WE6W was on frequency at 0530Z, but could only raise me. Propagation was depressed. Gody is expected to check into the Washington State Net (WSN) Saturday at 1600Z as Gody continues his backpacking adventure along the Pacific Crest Trail.

73, Harvey, N6MM

Altadena, CA -- That's in Southern California just north of Pasadena in DM04 (I think) and according the the QRZ Lookup it is 34.192 N 118.139 W Los Angeles County if you want to figure out the six digit version of the grid square in some software application or do it manually, hi.

Date: Fri, 7 Aug 1998 13:38:59 -0400
From: "Vincent Ferme" <vferme@sprint.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17060] Grid Square.
Message-ID: <00f401bdc22a\$4372bd90\$7b1005d1@frsswilap04284.callnetcanada.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If this is how we are going to do it, why not use the full grid square (6

digits). The city is covered and in many cases the neibourghood.

I don't think it's a good idea to use grid squares, they are popular in VHF/UHF work but not on HF.

73 de Vince, VE3VFN.

Date: Fri, 7 Aug 1998 11:02:30 -0700 (PDT)
From: Danh Le <dql@slip.net>
To: qrp-l@Lehigh.EDU
Subject: [17061] A curious question on the OHR Classic
Message-ID: <E0z4qqU-0005Ch-00@slip-3.slip.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hi All,

I have an OHR Classic which can put out 4w on 20m and 7w on 40m. The final is an 2SC2075. I found an interesting problem with the 40m band and thought I should ask for an explanation. Attempting to figure out what really happened with the setup on the bench failed since the problem only occurred once in a while.

There are quite a few times when I switched from 20m band (my favorite) to 40m and forgot to readjust the drive level so the output on 40m is at 7w.

Occasionally, I noticed that the SWR went up very high on 40m during key up (can also tell from the sound of side tone) Thinking that there may be some problem with the antenna, I switched to a different radio (Kenwood TS-850) and check it out. The SWR is very much normal! I switched back to the OHR Classic and checked it again, the SWR was still sky-high. Switching its output to a dummy load (I have everything inline), the SWR went right down to 1:1. The power is still at 7w. This problem occurs about 3 times in the last few months.

Last night, I noted that when the problem occurred, adjusting the power back to 5w, made the problem go away.

My guess is that when the 2SC2075 is pushed to put out 7w, somehow the 40m went into oscillation and transmitted on different frequency than 40m. Is my assumption correct?

Any explanation on what really happened here will be very much appreciated.

Tnx es 72 de Dan, KE6D

PS: Interestingly, the drive position where the 40m band put out 5w only produces 1w on 20m so there is not much of a power curve on 20m.

```
=====
Dan Le
Amateur Radio Station KE6D      QRP-L # 1212  NORCAL # 2414
dle@san-jose.ate.slb.com       (work)
dql@slip.net                    (play)
ke6d@w6yx.ampr.org             (packet)
=====
```

Date: Fri, 7 Aug 1998 14:11:25 -0500 (EST)
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
To: qrp-l@Lehigh.EDU, dql@slip.net
Subject: [17062] RE: A curious question on the OHR Classic
Message-ID: <51085.owen@piper.eeel.nist.gov>

In message Fri, 7 Aug 1998 11:02:30 -0700 (PDT),
Dan Le <dql@slip.net> writes:

> There are quite a few times when I switched from 20m
> band (my favorite) to 40m and forgot to readjust the
> drive level so the output on 40m is at 7w.
>
> Occasionally, I noticed that the SWR went up very high
> on 40m during key up

I think you mean key DOWN

> I switched back to the OHR Classic and checked it again,
> the SWR was still sky-high. Switching its output to a

> dummy load (I have everything inline), the SWR went right
> down to 1:1. The power is still at 7w.

>

> Last night, I noted that when the problem occurred,
> adjusting the power back to 5w, made the problem go away.

>

> My guess is that when the 2SC2075 is pushed to put out 7w,
> somehow the 40m went into oscillation and transmitted on
> different frequency than 40m. Is my assumption correct?

>

I believe it is. You have a spur being generated on a frequency that is not the same as your antenna resonance hence the SWR bridge sees a high SWR. When you go to the dummy load it's resonant at ALL frequencies hence it looks ok on the SWR meter. Simple solution is to keep the power down to 5 watts of course you could find and fix the problem.

72 Jim K4CGY qrp-l #72

Date: Fri, 7 Aug 1998 10:09:02 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [17063] Re: Quotation Verbosity Monitor Report
Message-ID: <19980807.111935.10214.0.gsurrency@juno.com>

Maybe we need an award for those with the greatest brevity in their posts.

I vote Zack, W1VT gets an award for posting the fewest words, while making his points crystal clear. ;-)

Can't recall him re-quoting very much, either.

72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Date: Fri, 7 Aug 1998 11:19:34 -0700

From: gsurrency@juno.com (Gary L Surrency)
To: qrp-1@Lehigh.EDU
Subject: [17064] SW30+ : Increasing the output, hmmmmm.
Message-ID: <19980807.111935.10214.2.gsurrency@juno.com>

Gang,

(QRPp types may now exit)

While I've had very little trouble tweaking my SW40+ to ~ 5 watts output, I'm seeing some problems when the output of the SW30+ approaches ~ 5 watts. The stock parts in my radio are capable of almost 5 watts output when things start to "take off" on their own. =:-o

The problem seems to be associated with Q4, when the drive level pot R24 is turned up past about the 4 watt level. Spurious hash is seen on the monitor scope, with a corresponding sudden increase in total output power on the WM-1 wattmeter, as the content of the transmitted spectrum gets very dirty.

I've had some success by substituting a 2N3904 for Q4, and then either keeping the 2N4401 for Q5 or using a PN2222a or MPS2222a. This seems to be a little more stable. It also cleans up the output spectrum, yet still allows very near 5 watts into a 50 ohm dummy load. What will happen when "real-world" antenna operation is attempted has yet to be tested. ;-)

The 2N4401 used for Q4 seems to have a lot of gain, and instability results at the higher drive levels. Some combinations of lower gain transistors seem more stable, but then it becomes more difficult to achieve ~ 5 watts output. I believe it is possible to get stable 5 watt operation with the "right" combination, thus allowing full 5 watt QRP output even when 12 volt gel cells are used.

Ferrite beads were tried on each of the leads of Q4 and Q5 and Q6, but were only somewhat successful in killing the hash on the TX signal when used on the emitter of Q4, but it resulted in considerable loss of intended signal so that only approx 3 watts maximum was available. Close, but no cigar.

All of these test were performed with the original components except as mentioned above when performing the trouble shooting. The supply voltage was 13.6 volts regulated with very low <1mv ripple from a homebrew power supply. Battery operation from 12v 7 A/H gell cells was similar, but required further increase of the drive pot before things got crazy. ;-)

Great care was used to assure the TX bandpass filter inductors were perfectly peaked. Best observation of this seems to be when operating at

about 300-700 mw of output power, since the peaks of T2 and T3 are much more noticeable, and safe output levels are maintained during long "tweaking". :-)

I have a small TO-220 heat sink on the 2SC2078 PA transistor to be safe, but when it "takes off", I stop transmitting immediately and wait for the PA to cool. I am currently using no protective zener on the PA collector, but I *do* have a 36v and 43v zener ready to be installed when I'm finished with the power level tests. If I put a zener in now, it would quickly get fried when the spurious stuff starts. The SW40+ works fine with a NTE5087A 43v 1 watt zener installed.

My guess is that some feedback is occurring through the DC supply circuitry between the PA and driver stages, but I've been unable to resolve it thru increased decoupling (shades of the 38 Special !). Or, the close proximity of the PA to the driver stages allows coupling and spurious feedback. I have tried different PA transistors, as well as many different transistors for Q4 and Q5. I also swapped the other NE612 mixer chips present in the receiver mixer and product detector with the TX mixer stage to no avail. Seems like the 10.1 Mhz TX mixer output is clean thru the bandpass filter, and Q4 is the source of instability.

Some finger capacity effects were noticed in the vicinity of Q4; probably due to the high impedance of the emitter follower circuit. Maybe an RF choke in the collector of Q4 will help, since shielding seems too difficult to implement. Or, a small cap from collector to base across R23 may calm things down a bit. I'm going to try this next.

I did see considerable heating of the PA choke when PA power levels approach 3-4 watts output. I subsequently replaced L2 with a small iron core cylindrical choke I had in the junk box that measured the same 15 uH as the original toroid did, using my AADE L/C II meter. No heating of this choke is apparent. The original toroid heating is probably due to core saturation at the higher power levels, since the winding is only 6 turns of adequately large circular mil #24 ga. wire with corresponding low I*R loss. I noticed the same core heating on my SW40+ rig, and on this SW30+ xcvr at power levels of 3-4 watts , even before unstable and spurious output is reached. Perhaps a bifilar collector choke is in order here.

My question is: Has anyone else encountered this phenomenon on their SWxx+ when using higher levels of drive and output levels?

In the meantime, I will "press on" as the Brits say, and look into resolving this problem as time permits.

Maybe I'll go camping this weekend and think about this some more. ;-)

Thanks for reading and 72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Date: Fri, 7 Aug 1998 10:12:22 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [17065] LM386-x voltage ratings
Message-ID: <19980807.111935.10214.1.gsurrency@juno.com>

Absolute Max Vs:

LM386N-1, LM386N-3 15V
LM386N-4 22v

Typical Electrical Characteristics:

LM386N-1	Vs=12V	Pout=325mw @ Vs=6V RL= 8 ohm	THD 10%
LM386N-3	Vs=12V	Pout=700mw @ Vs=9V RL=8 ohm	THD 10%
LM386N-4	Vs=18V	Pout=1000mw @ Vs=16 RL=32 ohm	THD 10%

Package dissipation LM386N 1.25w (DIP), LM386M 0.73w (SO pkg)

Source: National Semiconductor data sheets

72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Date: Fri, 07 Aug 1998 13:39:03 -0500
From: John Bohnert <johnb@elmhurst.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17066] Elmer 101 -- Survey
Message-ID: <35CB49C7.C3EE0212@elmhurst.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>From the earliest discussions about elmer activities and using QRP-L as a means for communication, I have been most interested in the results of this endeavor. I would appreciate a direct response to the five questions which follow. I will collect, collate, summarize, but not spindle or multilate, the results and publish them on QRP-L at an appropriate time. There are five questions for participants in Elmer 101 (QUESTION ONE through QUESTION FIVE)

For non-Elmer 101 participants a few comments about why you decided not to become involved, or...? Include your comments under "miscellaneous" comments (QUESTION FIVE) On to Elmer 200 and Elmer 300!!

QUESTION ONE What are the two most important outcomes for you from your Elmer 101 participation?

QUESTION TWO What is the one thing you would like to have been able to change in Elmer 101?

QUESTION THREE All things considered, the Elmer 101 project for me....

QUESTION FOUR Would you have purchased and built the SW40+ without the presence of Elmer 101? Rationale for response.

QUESTION FIVE Miscellaneous comments, including non-participants.

72
John N9KW QRP-L 1257
Elmhurst, IL

Date: Fri, 07 Aug 1998 11:24:02 -0700
From: "Hulbert, Nick" <nick.hulbert@lmco.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17067] ARRL/FCC FYI
Message-ID: <5104C9F8B0B5D1118C250000F8062537A8087D@emss02m13.ems.lmco.com>
Content-return: allowed

MIME-version: 1.0

Content-type: text/plain; charset="iso-8859-1"

NEWSLINE RADIO - CBBS EDITION #1094 - 7/31/98

```
(*****)  
(*                                     *)  
(*           A M A T E U R           *)  
(*                                     *)  
(*           R A D I O               *)  
(*                                     *)  
(*           N E W S L I N E         *)  
(*                                     *)  
(*****)
```

Hams react to ARRL Restructuring Proposal

Some like it. Some don't and the vast majority really do not seem to care. That's the only way we can report on reaction from the ham radio community to last weeks announcement by the American Radio Relay League of a new and simplified structure for the United States Amateur Radio service.

Reaction to the concept of a simplified ham radio license structure caught most hams off guard. Everyone knew that the FCC was preparing its own Notice of Proposed Rule making to address the issue of declining candidates for new Amateur Service licenses. Few were expecting the ARRL to take what many are calling a preemptive strike. The ARRL's Rick Lindquist, N1RL says that word of the concept sparked a lot of comment directly back to the League:

"Announcement of the Board's plan generated a tumult of opinions pro and con within the Amateur Radio community. Comments received at League Headquarters have ranged from angry opposition to enthusiastic support, but by the end of the week in which the plan was announced, most Board members reported receiving somewhat more comments in favor than opposed." Rick Lindquist, N1RL

Lindquist's report on the ARRL audio News seems to parallel what Newslines' own staff has been hearing as they listen across the bands. What little discussion there is on the air seems to favor the League. Warren Elly, W1GUD is in Tampa Florida:

"Reaction here in Florida from what I can hear on the low bands and on the VHF bands is pretty positive. I'd say that those who oppose are defiantly in the minority." Warren Elly, W1GUD

But the positive response is not so unanimous. According to Newslines David

Black, KB4KCH, there is some definite opposition. It focuses mainly on the letter designators for the proposed new license classes and on how the whole restructuring announcement was made:

"Ask hams in Alabama what they think of the Boards decision to propose a simplified licensing structure and you may hear complaints. First, the Boards decision to rename the license classes A, B, C and D." David Black, KB4KCH

"It's referring to the class C CB band in my mind."
Tom Moore, KL7Q

Tom Moore, KL7Q is a former Alabama Section Manager:

"For all the years we've tried to get rid of any association with citizens band especially for our newer hams who, when the no code tech license came in we really had to suffer a lot of innuendos, etc., etc. Now the class C thing is bound to revive that to some extent." Moore

Moore says that removing class names like Extra and Advanced takes away any prestige associated with those license classes. He opposes the suggested code requirements for Extra class hams. But those issues are only part of why hams complain about the new proposals. Moore sympathizes with the Leagues Board of Directors. After all, he says, they faced having changes made by the FCC for them. But he wants to know why the rude surprise:

"I think the League got caught off guard. My question is the League is paying big bucks some reps in Washington. Why didn't they know about this? Earlier on and tip the League?" Scott Johnston, N4YYQ

Scott Johnston, N4YYQ, is the current Alabama Section Manager:

"I don't think they publicized enough what they intended to do. I don't think there was enough information given in the form of a bulletin what the committee was doing. I understand they spend nearly thirty months on this project so I feel sure that, you know, they felt like it was well thought out. I'm also conscious of the fact they made the comment up front that all the board members were not agreement with this." Johnston

Johnston says the responses he is getting from Alabama hams overwhelmingly oppose the changes the Leagues Board suggests. If those changes take place,

former Section Manager Tom Moore says it will make radio equipment manufacturers happy but will lower the standards of amateur radio.
>From Birmingham, Alabama, David Black, KB4KCH, for Newsline.

If the real heavy debate is not on the air, then where is it? Try the:
rec.radio.amateur.policy

Internet newsgroup or one of the numerous Internet reflectors dedicated to ham radio political issues. The question is, are these cyberspace discussions indicative of how all of ham radio feels? That part of the story, next week.

(Newsline)

<*>

The reason the ARRL issued its plan
The FCC decision to proceed with restructuring Amateur Radio was the impetus to get the ARRL Board of Directors to issue its own preemptive restructuring plan. So says the Leagues Executive Vice President Dave Sumner, K1ZZ, in a statement on last weeks ARRL Audio News. Before the July meeting, the Board had twice voted down motions to consider changing the licensing structure. Sumner says that the soon to be released FCC restructuring proposal was the reason for the Board to issue a plan of its own:

"The reason that it culminates now -- 30 months after it began-is because we know that the FCC working on its own ideas to simplify the Amateur Radio service as part of the review of all FCC regulations. The board felt quite strongly that it would not be good for the amateur service if the FCC proposals-which we expect to see come out in the next couple of months formed the only basis for discussion of the simplification issue." Dave Sumner, K1ZZ

The ARRL has forwarded details of its proposal in a letter to the FCC, but says that it will not submit it as a petition for rule making. Rather, the League hopes that the FCC will use it as a guide in preparing its own, internal rule making notice.
(Newsline, ARRL Audio News)

<*>

No Code International reacts to ARRL Restructuring Proposal

No Code International has also reacted to the leagues proposed restructuring of ham radio. It likes what it sees, but it wants a lot more. For those not aware, No Code International is a worldwide organization that seeks to end Morse testing as a requirement for Amateur Radio operation

below 30 MHZ. And while No Code International's Board of Directors says that it applauds the ARRL board for making what it terms as a brave decision it also says it wants to encourage the ARRL's directors and membership to do more.

No Code International says that in addition to the Class "C" license, that the proposed Class "B" and "Class A" licenses should also require only a 5 Word Per Minute exam. And, No Code International urges the ARRL to make that change to the League proposal.

No Code International notes that the only remaining reason for any Morse code examinations comes from a 50 year old international radio regulation now called "S25.5" in the International

Telecommunications Union treaty. It requires manual Morse proficiency to be demonstrated before a license can be issued for operation in amateur spectrum below 30 MHZ.

No Code International predicts that regulation S25.5 will be struck from the treaty at the next ITU meeting. Once it is, NCI says that the Morse code examination should be eliminated entirely as a criterion for amateur licensing. As such, No Code International also urges the FCC to adopt a "sunset clause" that will immediately drop all Morse requirements for amateur licensing in the United States once S25.5 is gone.

(No Code International press release)

Date: Fri, 7 Aug 98 14:34:01 EDT
From: jeverhar@cse.1-3com.com
To: qrp-1@Lehigh.EDU
Cc: njqrp@njqrp.org
Subject: [17068] NJQRP Demo at SJRA Hamfest
Message-ID: <9808071834.AA13982@train11.cse.1-3com.com>

Group,

Plans are being made to have an NJQRP presence at the Sept 19 South Jersey Radio Association hamfest in Mt. Holly New Jersey.

Nothing is firm yet but what we intend is a two-part activity:

1. First is a verbal presentation on what QRP is all about and some of the neat things we QRP'ers do for fun. George, N2APB already gave this pitch at his local club up in North Jersey.
2. The neatest activity will be a workign station (probably using the WQ2RP call sign that will be engaged in the QRP Afield effort. This will be in a prominent location and serve as a direct QRP on-the-air demonstration.

Of course I don't want to keep anyone from participating in QRP Afield (after all we want the Q's) but if you were gonna go anyway, please check us out!

More details as things progress...

72/73,

Joe E., N2CX

Date: Fri, 7 Aug 1998 11:40:25 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [17069] Re: A curious question on the OHR Classic
Message-ID: <19980807.114026.10214.3.gsurrency@juno.com>

What you've got there, my boy, is spurious output. Yep. Happens all the time 'round heah. ;-)

The spurious content makes your normally low SWR go crazy, since your 40m antenna is no where near resonance at VHF-UHF where much of the spurious content is.

Moral:

Watch your drive level when your transmitter is marginally unstable, or, Nils-like. ;-)

72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Date: Fri, 7 Aug 1998 20:13:35 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [17070] Austin QRP Meeting Saturday (tomorrow)

Message-ID: <199808071913.UAA00657@chuck.dallas.sgi.com>

Gang,

I will be driving down to the Austin todo tomorrow just to see the gang, some old Aggie buddies, and just to see the hill country again.

Also to pick up a load of parts for the Elmer300 thingy. I'm running out of room in the shack.....

See you guys and girls at Luby's 11 a.m.

Hope the flux holds up and the Uniden still works mobil CW OK.

dit dit

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Fri, 7 Aug 1998 20:27:49 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-1@Lehigh.EDU
Subject: [17071] T092 Transistor pack info
Message-ID: <199808071927.UAA00774@chuck.dallas.sgi.com>

Gang,

You heard it here first. BG Micro has come out with the announced T092 pack, part number TRN1002 and here are the details. See their web page

<http://www.bgmicro.com/>

for mail order details and an online catalog. I'm going to pick up a supply on the way home and check 'em out. The least I can do for this group. :-) ; -)
This pack is not in the online catalog yet.

I get nothing for doing this and I have to drive across town to pick them up and pay with plastic. I'll put a picture on the web on Monday showing what they look like in a pile. :-)

I have found the datasheets for almost all of the Xsistors via Alta Vista and printed the .pdf files, so there should be no problem getting documentation. Also Philips has the Spice models online. The Internet really makes getting information a lot easier than it was three or more years ago.

-----here are the transistors in the pack-----

T0 92 pack.

4 each PN2222A*, PN2222, PN2369, PN2907, 2N3904, 2N3906, 2N4401, 2N4403, 2N5401, 2N5551, MPSA05, MPSA06, MPSA13, MPSA42, MPSA43, MPSA55, MPSA56, MPSA65, MPS3703, MPS6516, MPS6520, MPS6531, MPS6534, MPS6562, MPS8599, and another 12 transistors of our choosing.

That's 112 very popular T0 92 transistors for less than \$0.06 each. TRN1002...\$5.99

FYI

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Fri, 7 Aug 1998 15:43:44 -0400
From: "Ken & Linda Burrough" <ne0c@1st.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [17072] Grid Square
Message-ID: <002701bdc23b\$c9551fa0\$2506f0d1@ne0c.1st.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang

Call me old fashion or what ever, an old fashion address is the best. If everyone used grid squares I still would not know where they are. Would have to have a large index with all grid squares listed world wide. Make that six digit grid square identifiers and I would need a computer just for grid squares.

The Old Buzzard on the roost in Flushing, Ohio
Ken/ne0c

Date: Fri, 7 Aug 1998 13:45:58 -0600
From: "Steve Galchutt" <n0tu@webaccess.net>
To: "\"Low Power Amateur Radio Discussion\"" <qrp-1@Lehigh.EDU>
Subject: [17073] SST RIT?
Message-ID: <007201bdc23c\$043ee920\$844a460f@SG2939M.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I love my 20m/SST...a great design and fun compact lil' rig! But IMHO it needs a RIT, particularly for contesting! Has anyone tried a circuit like Dan's RIT kit or their one of their own designs yet? I worry about what it'll do to the already narrow freq range of the VX0. When I added Dan's kit to my SW40 I lost some range in my VX0. Any thoughts, suggestions or recommendations?

72...Steve/n0tu - Colorado
<http://www.webaccess.net/~S&P/HRindex.htm>

Date: Fri, 7 Aug 1998 14:01:16 -0700
From: "Robert Andrew Bell" <rbell@uniserve.com>
To: <qrp-1@Lehigh.EDU>
Subject: [17074] FS: LDG qrp Tuner
Message-ID: <000f01bdc246\$b309b8e0\$d5d5f4cc@satan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi, I have an LDG qrp tuner for sale in good working condition,I picked up an Icom AH2 and so don't need the qrp tuner anymore \$95 US shipping included.

Rob. VE7IGZ

Date: Fri, 07 Aug 1998 14:16:00 -0700
From: Gary Evans <gevans@lightspeed.net>
To: qrp-1@Lehigh.EDU
Subject: [17075] Windows 98 - Thanks...
Message-ID: <35CB6E88.5A4FAEF@lightspeed.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I received too many answers to my Windows 98 question to answer individually. I really appreciate all who took the time to make suggestions. Updating the drivers solved the problem. Thanks again to all!!!! Gary - AA6R

Date: Fri, 7 Aug 1998 14:21:37 -0700 (PDT)
From: Danh Le <dql@slip.net>
To: qrp-1@Lehigh.EDU
Subject: [17076] Re: A curious question on the OHR Classic
Message-ID: <E0z4txB-000083-00@slip-3.slip.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hi All,

Thank you for the good explanations. I guess the easiest fix is to watch the drive level when I transmit on 40m.

I also like to clarify that the term "Key Up" was wrong. It should be "Key Down".

72 de Dan, ke6d

Date: Fri, 07 Aug 1998 17:07:09
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@Lehigh.EDU
Subject: [17077] 11-2-10 progress report
Message-ID: <3.0.3.16.19980807170709.22d7a766@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy Gang!

Well, I bought out every MC145170D PLL chip Newark had in stock, all 89 of them. They came in the other day, so guess I'm committed to this project :-)

This week I relaid out the pcb for the SMT PLL chip and will make one up this weekend. Once that's proven, I'll make up a "beta" kit for Conrad to try out and if he can get his to work, we'll order some boards.

I'm toying with the idea of taking a little vacation in September and hike the Long Trail in Vermont, before I get too fat and lazy. Not that I can really afford 3 or 4 weeks of missed income and work, but one has to do what one has to do.

If I do decide to take a hike, I'll probably take along the 6V SW40+ for a least part of the trip. Many of the shelters and cabins along the Long Trail are near the top of the ridge line and should get out well. Wish I had a little QRP rig back when I was a summer caretaker for the hiker cabins on Mt Mansfield and then Camels Hump back 10-12 years ago!

But I degress. Even with the proposed hike, we should have these ready sometime late fall, when 10 M should really be showing signs of life :-)

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Fri, 7 Aug 1998 14:59:44 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: dql@slip.net
Cc: qrp-1@Lehigh.EDU

Subject: [17078] Re: A curious question on the OHR Classic
Message-ID: <19980807.150206.10214.11.gsurrency@juno.com>

Dan, ke6d wrote:

>I also like to clarify that the term "Key Up" was wrong. It should be
"Key
>Down".

Ah, but I *have* seen rigs that would "take off" when the key was
released. I distinct whisker could be seen on the trailing edge of the
envelope when monitored on a 'scope. Some parasitics were present, or the
keying transistor was acting up.

But thanks for the clarification. We knew what you meant. ;-)

72,

Gary Surrency AB7MY
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 8 Aug 1998 10:14:02 +1200
From: "DRL" <davel@nznet.gen.nz>
To: "QRP-L Post Message" <qrp-l@Lehigh.EDU>
Subject: [17079] info
Message-ID: <199808072222.KAA18466@bo.nznet.gen.nz>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Can someone tell me the web sites for computer info and do-it-yourself
stuff. Then I wont keep worrying this list. I promise.
Thanks
Dave Limbrick ZL2DL

Date: Sat, 8 Aug 1998 10:19:07 +1200
From: "DRL" <davel@nznet.gen.nz>

To: "QRP-L Post Message" <qrp-l@Lehigh.EDU>
Subject: [17080] info
Message-ID: <199808072226.KAA18939@bo.nznet.gen.nz>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Can someone please tell me some web sites for computer do-it-yourself stuff, data repairing etc.

Thanks

Dave Limbrick ZL2DL

Date: 07 Aug 1998 18:23:29 -0400
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
To: qrp-l;;
Subject: [17081] Toroid-less final amps?
Message-ID: <1998Aug07.182329-0400@[130.113.234.7]>

RF designers:

Suggested on a recent post (not to be quoted ;-)
was a question about ferrite-free amplifiers. Worth considering, especially for surface-mount (SMT) rigs. Seems to me the final amp might be most difficult.
A linear (class A) amp could do it and still meet spurious emission FCC specs, but at a terrible cost of poor efficiency. But some kind of coil (choke) is required.

What about class AB (push-pull) amps using stacked NPN/PNP transistors? Theoretical maximum efficiency is 75%. Many function generators do it this way, driving up to a watt into 50 ohms. Many have flat frequency response to about 20 MHz. Power output would be very dependent on available DC supply voltage. A 12v supply would likely only yield 0.5W RMS output.

Some unity-gain buffer chips could work.

An example would be LM6321, LM6325, which would work up to 7MHz, putting out up to 1W into 50 ohms with 30v supply (if you could keep it cool ;-)

High frequency op-amps like LM6171 don't quite have enough current to drive 50 ohm loads, and 7MHz operation stretches it to the limit of power bandwidth. It'd also run pretty hot.

Traditional non-linear amplifiers (requiring output filters involving inductors) are hard to beat.

Date: Fri, 07 Aug 1998 22:54:24 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17082] WSN-40 QRP net tomorrow.
Message-ID: <35CB85A0.7C87@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

1600Z 7040 KHz. WSN-40 net welcomes you to
visit. We are expecting Gody/AC6UV to QNI
and update us RE:Pacific Trail adventure
he is currently experiencing.

I will attempt to QNI from our Horseshoe Pitching
tournament (2 day event) so will probably be either
weak copy or unavailable due to being President of
the club and this is our Grand Re-opening after totally
rebuilding our 16 courts. Updates on the club are linked
at the bottom of my webpage (Horseshoe Pitching Link)

We only have one other Ham op in the Horseshoe Pitching club,
hopefully someday I'll hook up with him in the future. But
he's been inactive for years. But somehow, someday I'll
get that R390 (Original, not "A" version) receiver from
him. He mentioned it was Calibrated by the navy immediately
before mothballing...) quite a prize. Mint condx.

Little heavy though, not quite bicycle mobile ={8-D)

Y'all have a nice w/end. I'll be QRV at <mailto:we6w@juno.com>

(Thanks to Chris C./N3XRV!!!!)
-Ed L.

--
72, =ED, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

End of QRP-L Digest 1176

